

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE III
Page 3

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (canceled)

Claim 2. (previously presented) The composite tubular prosthesis according to claim 26, wherein said first tubular form is an inner tubular body and said second tubular form is an outer tubular body of said prosthesis.

Claim 3. (previously presented) The composite tubular prosthesis according to claim 26, wherein said first tubular form is an outer tubular body and said second tubular form is an inner tubular body of said prosthesis.

Claim 4. (previously presented) The composite tubular prosthesis according to claim 26, wherein the PTFE of said first tubular form is expanded PTFE.

Claim 5. (previously presented) The composite tubular prosthesis according to claim 26, wherein said deformable support structure is a stent.

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE III
Page 4

Claims 6-10. (canceled)

Claim 11. (previously presented) The composite tubular prosthesis as in claim 26, wherein the PTFE of said second tubular form is ePTFE.

Claim 12. (previously presented) The composite tubular prosthesis according to claim 26, wherein the deformable support structure is a wire stent with longitudinally adjacent waves being nested along the length of said first tubular body and peaks of said longitudinally nested waves are linearly aligned.

Claim 13. (previously presented) The composite tubular prosthesis according to claim 26, wherein the first tubular form is secured to said second tubular form by thermal bonding.

Claim 14-22. (canceled)

Claim 23. (previously presented) An implantable composite tubular prosthesis comprising:

a first plurality of generally straight polytetrafluoroethylene strips, said first strips being arranged to define a first tubular form with said first strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween;

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE III
Page 5

a second plurality of generally straight, separate and independent polytetrafluoroethylene strips said second strips being arranged to define a second tubular form with said second strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween; and

a circumferential deformable support structure interposed between said first tubular form and said second tubular form, wherein the strips of said first tubular form at least partially overlap the gaps of said second tubular form to secure the support structure.

Claim 24. (canceled)

Claim 25. (previously presented) A method of providing axial and circumferential compliance to an intraluminal prosthesis stent/graft composite comprising:

- a) providing a plurality of generally parallel, separate and independent polytetrafluoroethylene strips arranged to define a first tubular form, said strips being arranged in non-overlapping relationship to form gaps therebetween;
- b) positioning a deformable support structure over said first tubular form;
- c) positioning a second plurality of generally parallel, separate and independent polytetrafluoroethylene strips, said second strips being arranged in non-overlapping relationship

to define a second tubular form having gaps between the second strips, wherein said second tubular form is positioned at least partially over the gaps of said first tubular form; and

d) securing said second tubular form to said first tubular form to form said prosthesis.

Claim 26. (currently amended) An implantable composite tubular prosthesis comprising:

a first plurality of generally straight polytetrafluoroethylene strips, said first strips being arranged to define a first tubular form with said first strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween;

a second plurality of coaxial non-continuous polytetrafluoroethylene segments being arranged to define a second tubular form with said segments being arranged ~~longitudinally in non-overlapping relationship~~ along a longitudinal axis of said tubular prosthesis creating to create gaps between each segment therebetween; and

a circumferential deformable support structure interposed between said first tubular form and said second tubular form, wherein the strips of said first tubular form at least partially overlap the gaps of said second tubular form to secure the support structure.